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31 March 1955

Suggested Contents of Instruction Book

I Description of the Equipment and Its Intended Use.

A. Operational Specifications, such as:

1. Range
2. Size
3. Weight
4. Security
5. Operating life
6. Etc.

B. Intended Use and Limitations

1. Short Range Voice Communications
2. Line-of-Sight
3. Capable of fixed ground-to-ground commo only
4. Set-Up time
5. Beam Alignment
6. Security from interception

II Simple Theory

- A. What is Infrared Light?
- B. How is Voice Modulation of IR light accomplished?
- C. How is Demodulation of IR Light Accomplished?
- D. Why Use Small Beamwidths - Energy Savings and Security?
- E. How Does an IR Viewer Work?

III Operating Instructions

- A. Selection of Sites for Setting Up Equipment
- B. Preparation of Signal Plans
 1. Method of marking station locations
 2. Search-find procedure
 3. Time of Contacts
 4. Etc.

C. Unpacking Gear

DOCUMENT NO. 59
NO CHANGE IN CLASS. ☐
☐ DECLASSIFIED
CLASS. CHANGED TO: TS S C 2010
NEXT REVIEW DATE: _____
AUTH: HR 70-2
DATE: 18/180 REVIEWER: 010956

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D. Assembling Unit in Working Order

E. Operation of Unit

F. Charging and Care of Batteries

IV. Field Maintenance

A. Changing Lamp

B. Changing Tubes

C. Replacement of Batteries by Equivalents

D. Etc.

V. Shop Maintenance

A. Circuit Diagrams

B. Instructions for Optical Alignment

C. Maintenance of Electronic Units

D. Troubleshooting Data

Notes

1. Ample number of photos should be included; any parts labeled on photos should be numbered and keyed to a printed list to simplify translation.

2. Book may be mimeographed or whatever is convenient. Two copies per piece of equipment.

3. Book should be as brief as possible.

4. No specific form need be followed. Clarity and information are what is desired.

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